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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/714,061	11/14/2003	Xu Zuo	S104.12-0063/STL11496 3196		
7.	590 09/01/2005	EXAMINER			
Fellers, Snide	r, Blankenship, Bailey	CAO, ALLEN T			
Bank One Tow	·-	ART UNIT	PAPER NUMBER		
100 North Broa	idway	2652			
Oklahima City, OK 73102-8820			DATE MAILED: 09/01/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·				A 11 44 1				
		Applica	tion No.	Applicant(s)				
Office Action Commence			,061	ZUO ET AL.				
Oi	ffice Action Summary	Examin	er	Art Unit				
		Allen T.		2652				
The Period for Rep	MAILING DATE of this commur ly	ication appears on t	he cover sheet with the c	orrespondence ad	ldress			
THE MAILIN  - Extensions of after SIX (6) N  - If the period for If NO period for Failure to repl  Any reply reco	NED STATUTORY PERIOD F NG DATE OF THIS COMMUN time may be available under the provisions MONTHS from the mailing date of this com- or reply specified above is less than thirty (3 or reply is specified above, the maximum si by within the set or extended period for reply eived by the Office later than three months a term adjustment. See 37 CFR 1.704(b).	ICATION.  s of 37 CFR 1.136(a). In no nunication.  so) days, a reply within the statutory period will apply and will, by statute, cause the a	event, however, may a reply be tin tatutory minimum of thirty (30) day will expire SIX (6) MONTHS from application to become ABANDONE	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).	ly. communication.			
Status								
1)⊠ Resn	onsive to communication(s) file	ed on <i>27 August 20</i> 0	04.					
· <u> </u>	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
<u> </u>	<del></del>							
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
4)⊠ Claim	n(s) <u>1-18</u> is/are pending in the	application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)☐ Claim	Claim(s) is/are allowed.							
6)⊠ Claim	Claim(s) <u>1-6,10-13 and 16-18</u> is/are rejected.							
7)⊠ Claim	Claim(s) <u>7-9,14 and 15</u> is/are objected to.							
8) Claim	(s) are subject to restri	ction and/or election	requirement.					
Application Pa	pers							
9)□ The sp	pecification is objected to by th	e Examiner.						
10)⊠ The drawing(s) filed on <u>27 August 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applic	ant may not request that any obje	ction to the drawing(s	) be held in abeyance. See	e 37 CFR 1.85(a).				
Repla	cement drawing sheet(s) including	g the correction is requ	uired if the drawing(s) is ob	jected to. See 37 C	FR 1,121(d).			
11)☐ The oa	ath or declaration is objected t	by the Examiner.	Note the attached Office	Action or form P	ΓΟ-152.			
Priority under	35 U.S.C. § 119							
a)	wledgment is made of a claim b) Some * c) None of: Certified copies of the priority Certified copies of the priority Copies of the certified copies application from the Internation	documents have be documents have be of the priority documents	een received. een received in Applicati ments have been receive	on No	Stage			
* See the	e attached detailed Office action	•	` ''	ed.				
	=== 3000	2 22						
		ì						
Attachment(s)	interest Cited (DTO 200)		<b>∆</b> \□	(DTO 410)				
2) Notice of Ref	erences Cited (PTO-892) Aftsperson's Patent Drawing Review (F	PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) M Information C	Disclosure Statement(s) (PTO-1449 or Mail Date <u>8/27/04</u> .		5) Notice of Informal P 6) Other:		O-152)			

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1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract contains only 44 words which is less than 50 words.

2. Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "portion" in claims 1, 10 and 16 is vague and indefinite because 1) it lacks antecedent basis; and 2) it is unclear as to what is "portion'.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-2, 5-6, 10, 13 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oveyssi et al (US. 6,879,466 B1) in view of Ahmad et al (US. 6,175,469 B1).

Oveyssi et al discloses an actuator assembly having an actuator block (30, figure 2) including a body portion 32 and at least one actuator arm 34 extending from the body portion of the actuator block and the body portion including a damping assembly 62 coupled to the body portion as set forth in claims 1 and 10. Oveyssi et al also discloses a servo writing apparatus having a spindle assembly (figure 1) as recited in claim 10. Oveyssi also inherently discloses method steps as claimed including the step of securing the circuit board as recited in claim 16.

Oveyssi et al discloses there are relationship between the actuator block, the circuit board 30 and the damper 62 (see figure 1); however, Oveyssi et al does not clearly discloses that the damping assembly 62 interfaced between the actuator block and the circuit board 30.

Ahmad et al discloses a disk drive having a damper (150 or 154) interfaced between the voice coil motor 134 and the enclosure 104 of the disk drive.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to rearrange the location of the damper of Oveyssi et al such that the damper is interfaced between the circuit board and the actuator block as set forth, supra as taught by Ahmad et al.

The rational is as follows: One of ordinary skill in the art would have been motivated to rearrange the location of the damper of Oveyssi et al such that the damper

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is interfaced between the circuit board and the actuator block as set forth, supra as taught by Ahmad et al to reduce the vibration between parts within the housing (this case between the circuit board and the actuator block, particularly) in order to reduce the vibration of the actuator assembly, thus improve read/write characteristics.

Additionally, it would have been obvious to one of ordinary skill in the to rearrange the damper of Oveyssi et al to such location through an obvious rearrange of parts within housing by an engineering rearranging desire choices.

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Regarding claim 2, Oveyssi et al discloses that the damping assembly includes at least one rigid body 70 coupled to the body portion of the actuator block.

Regarding claims 5 and 13, Oveyssi et al discloses that the damping assembly includes at least one damper pad 72.

Regarding claim 6, Oveyssi et al discloses that the damper pad 72 is viscoelastic.

5. Claims 3-4, 11-12 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oveyssi et al and Ahmad et al as applied to claims 1, 10 or 16 above, and further in view of Weichelt et al (US. 2003/0169537 A1), respectively.

Oveyssi et al discloses that the damping assembly has only one rigid body.

Oveyssi as modified by Ahmad et al do not disclose a second rigid body as set forth in claims 3, 11 and 17.

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Weichelt et al discloses an actuator assembly having a damping assembly 300 including a damping layer (402 or 404) interposed between a first rigid body 408 and a second rigid body 408 (figure 4) as recited in claims 3, 11 and 17.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the damping assembly of Oveyssi et al as modified by Ahmad et al with an extra rigid body as set forth, supra as taught by Weichelt et al to improve the damping characteristics of the damping assembly, thus reduces vibration in the actuator assembly during operation of the disc drive.

Regarding claims 4 and 12, Weichelt et al discloses an adhesive 402 interposed between the plurality of rigid damper plates 302's.

Regarding claim 18, Oveyssi et al discloses a damper pad 72 and abut to the interface surface of the actuator block.

- 6. Claims 7-9 and 14-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen T. Cao whose telephone number is (571) 272-7569. The examiner can normally be reached on Mon Thurs (7:30 6:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Minlus Allen Cao

Primary Examiner

AC August 22, 2005